COMPLETE SAMPLE DELIVERY GROUP FILE (CSF)
EVIDENCE AUDIT CHECKLIST (EAC)

U.S. Environmental Protection Agency
Region 8 Superfund Program
Contract Laboratory Program (CLP)

Route to Validation (Y/N) _____

Case Number: 37402 SDG Number: MH2697

AUDIT CHECKLIST

Note: The following items are verified for each Region 8 CSF, except those indicated as "*Complete Audit Only.*" As described in the Region 8 Inspection of Complete Sample Delivery Group SOP, the items identified as *"Complete Audit Only"* are completed on approximately 10% of the Region 8 CSFs. When items identified as *"Complete Audit Only"* are not reviewed, "N/A" is marked.

CHAIN OF CUSTODY

1. Custody Seal Present? Yes X No____
2. Condition of Seal? Intact X Signed X Broken____ Unsigned____
3. Chain of Custody Record(s)/Traffic Reports Present? Yes X No____
4. Chain of Custody Record(s)/Traffic Reports Signed? Yes X No____
5. Chain of Custody Record(s)/Traffic Reports Dated? Yes X No____
6. Airbill Present? Yes____ No X
7. Airbill Number(s)? na ____ ____ ____
8. Airbill Signed? Yes na No____
9. Airbill Dated? Yes na No____
10. Sample Tags Present? Yes____ No X
11. Sample Tags Match DC-1 *(Complete Audit Only)*? Yes____ No____ N/A X

FORM DC-1

12. Form DC-1 Present? Yes X No____

FORM DC-2

13. Form DC-2 Present? Yes X No____
14. Form DC-2 Reviewed by USEPA and Correct *(Complete Audit Only)*? Yes____ No____ N/A X

DOCUMENT CONTROL

15.	Laboratory Documents Legible *(Complete Audit Only)*?	Yes____	No____	N/A X
16.	Original Documents Included in CSF *(Complete Audit Only)*?	Yes____	No____	N/A X

DATA INSPECTION

17.	Raw data present (for each analytical fraction defined by the traffic report/chain of custody record)?	Yes X	No____	
18.	Percent Solids Form present for soil samples?	Yes____	No____	N/A X
19.	Cover Page Present?	Yes X	No____	
20.	Records of Communication Present?	Yes X	No____	N/A____
21.	Form 1s present (for each analytical fraction defined by the traffic report/chain of custody record/cover page) *(Complete Audit Only)*?	Yes____	No____	N/A X

ELECTRONIC DATA

22. Electronic DAT file elements received?

EDD	Yes X	No____	N/A____
CCS Report	Yes X	No____	N/A____
M/VS Report	Yes X	No____	N/A____
Defect Code Report	Yes X	No____	N/A____

23. List RPM and contractors who received electronic DAT file:

Kathryn Hernandez – EPA

Tetra Tech

COMMENTS:

Airbill(s) was not provided since the samples were hand delivered to the laboratory

Audited By: (As defined in the Region 8 Inspection of Complete Sample Delivery Group SOP)

Signature

Dow Goodrich
Print Name

Date: 9/11/08

DATA CHEM LABORATORIES, INC.

SDG Administrative Narrative

Contract: EP-W-06-054

Case: 37402

SDG: MH2697

Set ID No.: 8171027

Cooler # and temperatures of each (upon receipt)

Cooler Number C08- NA	Arrival temperature was 4 °C
Cooler Number C08-	Arrival temperature was 4 °C
Cooler Number C08-	Arrival temperature was 4 °C
Cooler Number C08-	Arrival temperature was 4 °C
Cooler Number C08-	Arrival temperature was 4 °C
Cooler Number C08-	Arrival temperature was °C
Cooler Number C08-	Arrival temperature was °C
Cooler Number C08-	Arrival temperature was °C
Cooler Number C08-	Arrival temperature was °C

JW 7/14/08

Communications:

Any sample receiving issues with this SDG are fully documented through the email communications which are included as a portion of this SDG Narrative and immediately follow this page. Copies of each of these email communications are also located in the communication section of this datapackage. In addition, any analytical issues pertinent to a given fraction are fully documented by the analyst in the associated narrative for the applicable fraction.

Comments:

None.

Signature: Julie Wagatha Date: 7/14/08

Edwards, Meredith D.

From: Olson, Roxanne
Sent: Wednesday, June 18, 2008 2:47 PM
To: Edwards, Meredith D.
Subject: FW: Region 08 |Case 37402 | Lab DATAC | Issue Multiple | FINAL

Attachments: 20080618103200 25.pdf; 37402 CLP IDs.xls


20080618103200 25.pdf (642 KB) 37402 CLP IDs.xls (28 KB)

-----Original Message-----
From: Kramer, Caroline [mailto:ckramer5@fedcsc.com]
Sent: Wednesday, June 18, 2008 2:24 PM
To: Olson, Roxanne
Cc: beard.carol@epa.gov
Subject: Region 08 |Case 37402 | Lab DATAC | Issue Multiple | FINAL

Roxy,
Summary Start
-Discrepancies with tags, jars, and/or TR/COC- Issue 1: The soil, TM and DM samples were all given the same sample ID on the TR/COC. with tags, jars, and/or TR/COC- Issue 1: The soil, TM and DM samples were all given the same sample ID on the TR/COC.
Resolution 1: Per Region 8, the laboratory will note issue in the SDG Narrative and will use the CLP sample ID provided in the attached table for the DM water and soil samples. The TM water samples will retain the CLP ID listed on the TR/COC.

-Sample listed on TR/COC but not received at laboratory- Issue 2: No sample container was received for DM for sample on TR designated MH25A4. TM container was received.
Resolution 2: Per Region 8, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.
Summary End

Caroline L. Kramer
ckramer5@fedcsc.com
Computer Sciences Corporation (CSC)
703.818.4248

-----Original Message-----
From: Beard.Carol@epamail.epa.gov [mailto:Beard.Carol@epamail.epa.gov]
Sent: Wednesday, June 18, 2008 1:17 PM
To: Kramer, Caroline
Subject: Re: Region 08 |Case 37402 | Lab DATAC | Issue Multiple

Caroline-

Issue 1 : Please provide the laboratory with new ID for the different matrices for Case 37402.

Issue 2 : Please have the laboratory note this in the case narrative and proceed with the analysis.

Thanks! Carol

"Kramer, Caroline" <ckramer5@fedcsc.com>

06/18/2008 11:06 AM

To: Carol Beard/EPR/R8/USEPA/US@EPA

cc:

Subject: Region 08 |Case 37402 | Lab DATAC | Issue Multiple

Carol,
DATAC is reporting the follow issues regarding Case 37402 for samples delivered today. TR/COC are attached for reference. Please advise on how the Region wishes the laboratory to proceed.

-Discrepancies with tags, jars, and/or TR/COC- Issue 1: The soil, TM and DM samples were all given the same sample ID on the TR/COC.

*Please advise if you would like me to provide new ID for the different matrices. I can do this in a table like last time.

-Sample listed on TR/COC but not received at laboratory- Issue 2: No sample container was received for DM for sample on TR designated MH25A4.
TM container was received.

Please let me know if you have any questions.
Thanks,

Caroline L. Kramer
ckramer5@fedcsc.com
Computer Sciences Corporation (CSC)
703.818.4248

-----Original Message-----
From: Olson, Roxanne [mailto:olsonr@datachem.com]
Sent: Wednesday, June 18, 2008 12:40 PM
To: Kramer, Caroline
Cc: Edwards, Meredith D.
Subject: Case 37402 Sample Delivery 6/18

Caroline: Here are the TRs for case 37402 for samples we received today and which we spoke about a few minutes ago on the phone.

Issues we see immediately:

TM, DM and Sediment samples all have same EPA IDs. Water containers labels do

differentiate between DM and TM.
No container was received for DM for sample on TR designated MH25A4. TM container was received.
How do we complete DC-1 forms?

More issues may crop up but we can't begin to address this delivery until we get the first issues taken care of.

Thanks for your help!

Roxy
(See attached file: 2008061810320025.pdf)

Listed TR ID	Matrix	Analysis	New CLP ID
MH2599	water	TM	MH2599
	water (filterd)	DM	MH2662
	soil	TM	MH2663
MH25A0	water	TM	MH25A0
	water (filterd)	DM	MH2664
	soil	TM	MH2665
MH25A1	water	TM	MH25A1
	water (filterd)	DM	MH2666
	soil	TM	MH2667
MH25A2	water	TM	MH25A2
	water (filterd)	DM	MH2668
	soil	TM	MH2669
MH25A3	water	TM	MH25A3
	water (filterd)	DM	MH2670
	soil	TM	MH2671
MH25A6	water	TM	MH25A6
	water (filterd)	DM	MH2672
MH25A7	water	TM	MH25A7
	water (filterd)	DM	MH2673
	soil	TM	MH2674
MH25A9	water	TM	MH25A9
	water (filterd)	DM	MH2675
	soil	TM	MH2676
MH25B0	water	TM	MH25B0
	water (filterd)	DM	MH2677
	soil	TM	MH2678
MH25B1	water	TM	MH25B1
	water (filterd)	DM	MH2679
	soil	TM	MH2680
MH25B2	water	TM	MH25B2
	water (filterd)	DM	MH2681
	soil	TM	MH2682
MH25B3	water	TM	MH25B3
	water (filterd)	DM	MH2683
	soil	TM	MH2684
MH25B4	water	TM	MH25B4
	water (filterd)	DM	MH2685
MH25B5	water	TM	MH25B5
	water (filterd)	DM	MH2686
	soil	TM	MH2687
MH25B6	water	TM	MH25B6
	water (filterd)	DM	MH2688
	soil	TM	MH2689
MH25B7	water	TM	MH25B7
	water (filterd)	DM	MH2690
	soil	TM	MH2691

MH25B8	water	TM	MH25B8
	water (filterd)	DM	MH2692
	soil	TM	MH2693
MH25C0	water	TM	MH25C0
	water (filterd)	DM	MH2694
	soil	TM	MH9695
MH25C4	water	TM	MH25C4
	water (filterd)	DM	MH2696
MH25C5	water	TM	MH25C5
	water (filterd)	DM	MH2697
	soil	TM	MH2698
MH25C7	water	TM	MH25C7
	water (filterd)	DM	MH2699
	soil	TM	MH26A0
MH25C8	water	TM	MH25C8
	water (filterd)	DM	MH26A1
	soil	TM	MH26A2
MH25C9	water	TM	MH25C9
	water (filterd)	DM	MH26A3
MH25D1	water	TM	MH25D1
	water (filterd)	DM	MH26A4
	soil	TM	MH26A5
MH25D3	water	TM	MH25D3
	water (filterd)	DM	MH26A6
MH25D4	water	TM	MH25D4
	water (filterd)	DM	MH26A7
	soil	TM	MH26A8
MH25D5	water	TM	MH25D5
	water (filterd)	DM	MH26A9
	soil	TM	MH26B0
MH25D6	water	TM	MH25D6
	water (filterd)	DM	MH26B1
MH25D7	water	TM	MH25D7
	water (filterd)	DM	MH26B2
	soil	TM	MH26B3
MH25D8	water	TM	MH25D8
	water (filterd)	DM	MH25B4
MH25D9	water	TM	MH25D9
	water (filterd)	DM	MH26B5
MH25E0	water	TM	MH25E0
	water (filterd)	DM	MH26B6
MH25E1	water	TM	MH25E1
	water (filterd)	DM	MH26B7
MH25E2	water	TM	MH25E2
	water (filterd)	DM	MH26B8
MH25E3	water	TM	MH25E3
	water (filterd)	DM	MH26B9

MH25E4	water	TM	MH25E4
	water (filterd)	DM	MH26C0
	soil	TM	MH26C1
MH25E5	water	TM	MH25E5
	water (filterd)	DM	MH26C2
	soil	TM	MH26C3
MH25E6	water	TM	MH25E6
	water (filterd)	DM	MH26C4
	soil	TM	MH26C5
MH25E7	water	TM	MH25E7
	water (filterd)	DM	MH26C6
	soil	TM	MH26C7
MH25E8	water	TM	MH25E8
	water (filterd)	DM	MH26C8
	soil	TM	MH26C9
MH25E9	water	TM	MH25E9
	water (filterd)	DM	MH26D0
MH25F0	water	TM	MH25F0
	water (filterd)	DM	MH26D1

Edwards, Meredith D.

From: Olson, Roxanne
Sent: Friday, June 20, 2008 9:54 AM
To: Edwards, Meredith D.
Subject: FW: Region 08 |Case 37402 || Lab DATAC | Issue Insufficient volume | FINAL

From: Kramer, Caroline [mailto:ckramer5@fedcsc.com]
Sent: Friday, June 20, 2008 9:46 AM
To: Olson, Roxanne
Cc: beard.carol@epa.gov
Subject: Region 08 |Case 37402 | Lab DATAC | Issue Insufficient volume | FINAL

Roxy,
Summary Start
Issue: There were no samples designated on the TR/COC for laboratory QC and lab QC is required per scheduling. The laboratory is unable to perform a reduced volume QC on the waters as the samplers delivered the samples in 500 mL bottles instead of the 1000 mL recommended in the SOW. Below is a list of the SDG for Case 37402 and the laboratory has indicated which SDG will not have sufficient volume for QC, and where possible selected a sample they would like to use for QC.
MH2599 (TM water) no QC selected as there is not enough volume.
MH25C5 (TM water) no QC selected as there is not enough volume.
MH25E8 (TM water) no QC selected as there is not enough volume.
MH2662 (DM water) no QC selected as there is not enough volume.
MH2697 (DM water) no QC selected as there is not enough volume.
MH26C8 (DM water) no QC selected as there is not enough volume.
MH25F1 (TM soil) selected MH26C9 for QC.
MH2663 (TM soil) selected MH2695 for QC
Resolution: Per Region 8, the laboratory's selection of soil QC samples is acceptable. The laboratory will note the volume insufficiency in the SDG Narrative, cancel lab QC on the TM and DM SDG and proceed with the analysis of the samples.
Summary End

Please let me know if you have any questions or problems.
Thank you,

Caroline L. Kramer
ckramer5@fedcsc.com
Computer Sciences Corporation (CSC)
703.818.4248

→ **6/20/2008 Phone conversation between Caroline Kramer, SMO, and Carol Beard, Region 8. Carol confirmed that the soil samples selected for QC are acceptable and that DATAC can cancel the QC for the water samples due to insufficient sample volume. The laboratory will note the issue in the SDG Narrative.**

From: Kramer, Caroline

Sent: Thursday, June 19, 2008 3:21 PM
To: 'beard.carol@epa.gov'
Subject: Region 08 |Case 37402 | Lab DATAC | Issue Insufficient volume

Carol,
DATAC is reporting the following issue regarding Case 37402. Please advise on how the Region wishes the laboratory to proceed.

Issue: There were no samples designated on the TR/COC for laboratory QC and lab QC is required per scheduling. The laboratory is unable to perform a reduced volume QC on the waters as the samplers delivered the samples in 500 mL bottles instead of the 1000 mL recommended in the SOW. Below is a list of the SDG for Case 37402 and the laboratory has indicated which SDG will not have sufficient volume for QC, and where possible selected a sample they would like to use for QC.

MH2599 (TM water) no QC selected as there is not enough volume.
MH25C5 (TM water) no QC selected as there is not enough volume.
MH25E8 (TM water) no QC selected as there is not enough volume.
MH2662 (DM water) no QC selected as there is not enough volume.
MH2697 (DM water) no QC selected as there is not enough volume.
MH26C8 (DM water) no QC selected as there is not enough volume.
MH25F1 (TM soil) selected MH26C9 for QC.
MH2663 (TM soil) selected MH2695 for QC

Please let me know if you have any questions or problems.
Thank you,

Caroline L. Kramer
ckramer5@fedcsc.com
Computer Sciences Corporation (CSC)
703.818.4248

From: Olson, Roxanne [mailto:olsonr@datachem.com]
Sent: Thursday, June 19, 2008 3:04 PM
To: Kramer, Caroline
Subject: FW: Region 8 Case 37402

Caroline: See the following for the SDGs and where possible DATAC's selection for QC. Please note that because this was a confusing login effort we have one SDG (MH2663) that we did not use the lowest alpha numeric number to name the SDG.

Roxy

From: Edwards, Meredith D.
Sent: Thursday, June 19, 2008 12:57 PM
To: DataChem EPA List
Subject: Region 8 Case 37402

Here are the SDG names and then the samples I chose for QC.

MH2599 TM water no QC selected as there is not enough volume.

MH25C5 TM water no QC selected as there is not enough volume.

MH25E8 TM water no QC selected as there is not enough volume.

MH2662 DM water no QC selected as there is not enough volume.

MH2697 DM water no QC selected as there is not enough volume.

MH26C8 DM water no QC selected as there is not enough volume.

MH25F1 TM soil selected MH26C9 for QC.

MH2663 TM soil selected MH2695 for QC also on this SDG I used a higher number to name the SDG. Since there were only 2 samples that didn't change names after receipt it was very confusing.

Thanks

Mere

-----Original Message-----
From: Kramer, Caroline
Sent: Thursday, June 19, 2008 10:47 AM
To: 'Olson, Roxanne'
Subject: RE: Region 08 |Case 37402 | Lab DATAC | Issue Multiple | FINAL

Roxy,
Just let me know as soon as you know which SDG will not have sufficient volume and I will pass it along to the Region for a resolution.
Please let me know if you have any confusion with the spreadsheet of new sample IDs as you are logging them in.
Thanks,

Caroline L. Kramer
ckramer5@fedcsc.com
Computer Sciences Corporation (CSC)
703.818.4248

-----Original Message-----
From: Olson, Roxanne [mailto:olsonr@datachem.com]
Sent: Thursday, June 19, 2008 10:38 AM
To: Kramer, Caroline
Subject: FW: Region 08 |Case 37402 | Lab DATAC | Issue Multiple | FINAL

Caroline: Another issue with the samples from yesterday as we were logging them in. We have no extra volume for the water samples for QC. Is the case closed or should we expect additional volume from another delivery? We can't even do a reduced volume on the waters as the samplers are delivering the samples in 500 mL bottles instead of the 1000 mL recommended in the SOW. I will let you know which SDGs will not have QC as soon as we complete the login.

Roxy

USEPA - CLP

COVER PAGE

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1554.1 SDG No.: MH2697

SOW No.: ILM05.4

EPA Sample No.	Lab Sample ID
MH2697	8171027001
MH2699	8171027002
MH26A1	8171027003
MH26A3	8171027004
MH26A4	8171027005
MH26A6	8171027006
MH26A7	8171027007
MH26A9	8171027008
MH26B1	8171027009
MH26B2	8171027010
MH26B4	8171027011
MH26B5	8171027012
MH26B6	8171027013
MH26B7	8171027014
MH26B8	8171027015
MH26B9	8171027016
MH26C0	8171027017
MH26C2	8171027018
MH26C4	8171027019
MH26C6	8171027020

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS Interelement corrections applied?	(Yes/No)	NO	YES
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	NO	NO
If yes - were raw data generated before application of background corrections?	(Yes/No)	NO	NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:  Name: Neil Edwards

Date: 07/14/2008 Title: Chemist

DATA CHEM LABORATORIES, INC.

SDG NARRATIVE

Case #: 37402
SDG#: MH2697
Contract #: EP-W-06-054
DCL Set ID#: 8171027
Modification#: 1554.1
July 14, 2008

General Information

The twenty samples in this SDG were analyzed by methodologies contained in ILM05.4. All concentration, analytical, and method qualifiers are defined in the SOW.

Holding Times

The samples were prepared and analyzed within method required holding times.

Initial and Continuing Calibration

All initial and continuing calibration verification and blank analyses were performed within the designated frequency and recoveries of the verifications and concentrations of the blanks met method acceptance criteria.

ICP-MS Interference Check Sample Analysis

Results for the interference check samples met method acceptance criteria.

Preparation Blanks

The absolute values of all analyte concentrations in the preparation blanks were lower than the Contract Required Quantitation Limits.

Laboratory Control Sample Analysis

Results for the analysis of the water LCS met method acceptance criteria.

Matrix Spike Analysis

A matrix spike was not prepared or analyzed due to insufficient sample volume.

Matrix Duplicate Analysis

A matrix duplicate was not prepared or analyzed due to insufficient sample volume.

ICP-MS Serial Dilution

ICP-MS Serial Dilutions results met method acceptance criteria with the exceptions of antimony and nickel.

Miscellaneous Comments

All calibration data is linear, please see raw data.
Cooler Temps were at 4 °C.
Issue: Samples were received with the same sample ID for TM and DM. New CLP sample IDs were received for the DM analysis.
Issue: Insufficient sample volumes were received to prepare or analyze matrix spike and matrix spike duplicate samples.

Example Equations

Method HW3: $C \times \frac{Vf}{Vi} \times DF = Concentration(\mu g/L)$

C = Instrument value in µg/L (The average of all replicate integrations).
Vf = Final digestion volume (mL)
Vi = Initial digestion volume (mL)
DF = Dilution Factor

SAMPLE LOG-IN SHEET

LCM — Mod 1554.1

Lab Name: DataChem Laboratories, Inc. — Page 1 of 1

Received By (Print Name): Meredith Edwards — Log-In Date: 6/19/08

Received By (Signature): Meredith Edwards

Case Number: 37402 — Sample Delivery Group No.: MH2077 — NRAS Number: n/a

Remarks:

		EPA Sample #	Aqueous Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent* Intact/Broken*	MH25A7	42	n/a		TM water
		A9				
2. Custody Seal Nos.	n/a	B0				
		B1				
3. TrafficReports/ Chain of Custody Records or Packing Lists	Present/Absent*	B4				
4. Airbill	Airbill/Sticker Present/Absent*	B5				
		B8				
5. Airbill No.	n/a	D9				
		E8				
6. Sample Tags	Present/Absent*	F1	n/a			Metals Soil
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody	MH2673	42			TM water
7. Sample Condition	Intact/Broken*/ Leaking*	75				
8. Cooler Temperature Indicator Bottle	Present/Absent*	77				
9. Cooler Temperature	4°	79				
10. Does information on custody records, traffic reports, and sample tags agree?	Yes/No*	85				
11. Date Received at lab	6/18/08	86				
12. Time Received	815	92				
Sample Transfer		B5			8171027012	
Fraction	Fraction	C8				
TM/DM						
Area # P.331	Area #					
By AH	By					
On 6/18/08	On					

* Contact SMO and attach record of resolution

Reviewed By: Lorraine Olson — Logbook No. NOT APPLICABLE

Date: 6/18/08 — Logbook Page No. NOT APPLICABLE

SAMPLE LOG-IN SHEET

Copy

Mod 1554.1

Lab Name	DataChem Laboratories, Inc.	Page 1 of 1
Received By (Print Name)	Meredith Edwards	Log-in Date 6/19/08
Received By (Signature)	Meredith Edwards	
Case Number 37402	Sample Delivery Group No. MH2197	NRAS Number N/A

Remarks:		EPA Sample #	Aqueous Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent* Intact/Broken*	MH2599	L2	N/A		TM Water
		A0				
2. Custody Seal Nos.	N/A	A2				
	1	A3				
3. TrafficReports/ Chain of Custody Records or Packing Lists	Present/Absent*	B2				
4. Airbill	Airbill/Sticker Present/Absent*	B3				
		B6				
5. Airbill No.	N/A	E1				
	1	E2				
6. Sample Tags	Present/Absent*	MH2602				DM Water
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody	04				
7. Sample Condition	Intact/Broken*/ Leaking*	08				
8. Cooler Temperature Indicator Bottle	Present/Absent*	70				
9. Cooler Temperature	4°	81				
10. Does information on custody records, traffic reports, and sample tags agree?	Yes/No*	83				
11. Date Received at lab	6/18/08	88				
12. Time Received	815	B7			81702704	
Sample Transfer		B8			1 015	
Fraction TM/DM	Fraction ~~Alk 6/18/08~~			Alk 6/18/08		
Area # R.331	Area # ~~6/18/08~~					
By Alk	By ~~Alk~~					
On 6/18/08	On					

* Contact SMO and attach record of resolution

Reviewed By	Roxanne Olsen	Logbook No. NOT APPLICABLE
Date:	6/19/08	Logbook Page No. NOT APPLICABLE

SAMPLE LOG-IN SHEET

Copy

Lab Name: DataChem Laboratories, Inc.

Page 1 of 1

Received By (Print Name): Meredith Edwards

Log-In Date: 6/19/08

Received By (Signature): Meredith Edwards

Case Number: 37402

Sample Delivery Group No.: MH-2697

NRAS Number: n/a

Remarks:

		EPA Sample #	Aqueous Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent* Intact/Broken*	MH25A6	12	n/a		TM water
		D5				
2. Custody Seal Nos.	n/a	D6				
	1	D7				
3. TrafficReports/ Chain of Custody Records or Packing Lists	Present/Absent*	D8				
4. Airbill	Airbill/Sticker Present/Absent*	E0				
		E7				
5. Airbill No.	n/a	MH2672				DM water
	1	A9			8171270008	
6. Sample Tags	Present/Absent*	B1			009	
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody	B2			010	
7. Sample Condition	Intact/Broken*/ Leaking*	B4			011	
8. Cooler Temperature Indicator Bottle	Present/Absent*	B6			013	
9. Cooler Temperature	4°	C6			012	
10. Does information on custody records, traffic reports, and sample tags agree?	Yes/No*					
11. Date Received at lab	6/18/08					
12. Time Received	845					

Sample Transfer

Fraction	Fraction
TM/DM	
Area # R-33.1	Area #
By	By
On 6/18/08	On

6/18/08

* Contact SMO and attach record of resolution

Reviewed By: Roxanne Olsen

Date: 6/19/08

Logbook No. NOT APPLICABLE

Logbook Page No. NOT APPLICABLE

SAMPLE LOG-IN SHEET

Copy

Mod 1554.1

Lab Name	DataChem Laboratories, Inc.
Page	1 of 1
Received By (Print Name)	Meredith Edwards
Log-In Date	6/19/08
Received By (Signature)	Meredith Edwards
Case Number	37102
Sample Delivery Group No.	MH2697
NRAS Number	N/A

Remarks:	EPA Sample #	Aqueous Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s) Present/Absent* Intact/Broken*	MH25A4	2	N/A		TM water
	B7				
2. Custody Seal Nos. N/A	C5				
1	D3				
3. TrafficReports/ Chain of Custody Records or Packing Lists Present/Absent*	D4				
4. Airbill Airbill/Sticker Present/Absent*	E5				
	E6				
5. Airbill No. N/A	MH2690				DM water
1	97			817027001	
6. Sample Tags Present/Absent*	A6			006	
Sample Tag Numbers Listed/Not Listed on Chain-of-Custody	A7			007	
7. Sample Condition Intact/Broken*/ Leaking*	C2			018	
8. Cooler Temperature Indicator Bottle Present/Absent*	C4			019	
9. Cooler Temperature 4°					
10. Does information on custody records, traffic reports, and sample tags agree? Yes/No*					
11. Date Received at lab 6/18/08			N/A 6/18/08		
12. Time Received 9:15					
Sample Transfer					
Fraction TM/DM	Fraction N/A 6/18/08				
Area # P.3b.1	Area #				
By MH	By				
On 6/18/08	On				

* Contact SMO and attach record of resolution

Reviewed By Catherine Allen	Logbook No. NOT APPLICABLE
Date: 6/19/08	Logbook Page No. NOT APPLICABLE

SAMPLE LOG-IN SHEET

Copy

Mod 1554.1

Lab Name	DataChem Laboratories, Inc.	Page 1 of 1
Received By (Print Name)	Meredith Edwards	Log-In Date 6/19/08
Received By (Signature)	Meredith Edward	

Case Number	Sample Delivery Group No.	NRAS Number
37402	MH2097	n/a

Remarks:

1. Custody Seal (s) — Present/Absent* / Intact/Broken*
2. Custody Seal Nos. — n/a / 1
3. TrafficReports/ Chain of Custody Records or Packing Lists — Present/Absent*
4. Airbill — Airbill/Sticker Present/Absent*
5. Airbill No. — n/a / 1
6. Sample Tags — Present/Absent*
   Sample Tag Numbers — Listed/Not Listed on Chain-of-Custody
7. Sample Condition — Intact/Broken*/ Leaking*
8. Cooler Temperature Indicator Bottle — Present/Absent*
9. Cooler Temperature — 4°
10. Does information on custody records, traffic reports, and sample tags agree? — Yes/No*
11. Date Received at lab — 6/18/08
12. Time Received — 815

Sample Transfer

Fraction	Fraction
TM / DM	~~ML~~ 6/18/08
Area # R331	Area #
By	By
On 6/18/08	On

EPA Sample #	Aqueous Sample pH	Corresponding: Sample Tag #	Corresponding: Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
MH25C0	2	n/a		TM water
C4				
C7				
C8				
C9				
D1				
E3				
E4				
E9				
F0				
MH2094				DM water
96				
99			8710 27002	
A1			003	
A3			004	
A4			005	
B9			016	
C0			017	
D0				
D1				

* Contact SMO and attach record of resolution

Reviewed By: Lorraine Olson	Logbook No. NOT APPLICABLE
Date: 6/19/08	Logbook Page No. NOT APPLICABLE

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME	DataChem Laboratories, Inc.		
CITY/STATE	Salt Lake City, UT 84123		
CASE NO.	37402	SDG NO.:	MH2697
SDG NOs. TO FOLLOW	N/A		
NRAS No.	N/A		
CONTRACT NO.	EP-W-06-054		
SOW NO.	ILM05.4		

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.6)

		PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK REGION
1.	Cover Page	1	1	✓	
2.	SDG Narrative	2	3	✓	
3.	Sample Log-In Sheet (DC-1)	4	8	✓	
4.	Inventory Sheet (DC-2)	9	10	✓	
5.	Traffic Report/Chain of Custody Record(s)	11	13	✓	
	Inorganic Analysis				
6.	Data Sheet (Form I-IN)	14	33	✓	
7.	Initial & Continuing Calibration Verification (Form IIA-IN)	34	36	✓	
8.	CRQL Standard (Form IIB-IN)	37	38	✓	
9.	Blanks (Form III-IN)	39	40	✓	
10.	ICP-AES Interference Check Sample (Form IVA-IN)	NA		✓	
11.	ICP-MS Interference Check Sample (Form IVB-IN)	41	41	✓	
12.	Matrix Spike Sample Recovery (Form VA-IN)	NA		✓	
13.	Post-Digestion Spike Sample Recovery (Form VB-IN)	↓		✓	
14.	Duplicates (Form VI-IN)	↓		✓	
15.	Laboratory Control Sample (Form VII-IN)	42	42	✓	
16.	ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	43	43	✓	
17.	Method Detection Limits (Annually) (Form IX-IN)	44	45	✓	
18.	ICP-AES Interelement Correction Factors (Quarterly) Form XA-IN)	NA		✓	
19.	ICP-AES Interelement Correction Factors (Quarterly) Form XB-IN)	↓		✓	
20.	ICP-AES and ICP-MS Linear Ranges (Quarterly) Form XI-IN)	46	46	✓	
21.	Preparation Log (Form XII-IN)	47	47	✓	

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK REGION
22. Analysis Run Log (Form XIII-IN)	48	49	✓	
23. ICP-MS Tune (Form XIV-IN)	50	50	✓	
24. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)	51	56	✓	
25. ICP AES Raw Data	NA		✓	
26. GFAA Raw Data (If Applicable)	NA		✓	
27. ICP-MS Raw Data	57	192	✓	
28. Mercury Raw Dta	NA		✓	
29. Cyanide Raw Data	NA		✓	
30. Preparation Logs Raw Data	193	193	✓	
31. Percent Solids Determination Log	NA		✓	
32. USEPA Shipping/Receiving Documents				
Airbill (No. of Shipments ____)	194	194	✓	
Sample Tags	195	195	✓	
Sample Log-In Sheet (Lab)	NA		✓	
33. Misc. Shipping/Receiving Records (list all individual records)				
Telephone Logs	NA		✓	
DCL CRIR	NA		✓	
DCL SDG TR Cover Sheet	196	196	✓	
34. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
DCL Work Order	NA		✓	
DCL COC	197	198	✓	
35. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records	199	205	✓	
Analysis Records	206	228	✓	
Description	NA		✓	
36. Other Records (describe or list)				
Telephone Communications Log	NA		✓	
E-mail Communications	229	238	✓	
			✓	

37. Comments: _____

Completed by:
(CLP Lab) Julie Warath — Julie Warath / Doc. Ctrl. — 7/14/08
(Signature) (Print Name & Title) (Date)

Audited By:
(USEPA)
(Signature) (Print Name & Title) (Date)

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

W 8171027

Copy

Mod 1584.1

Case No: 37402
SAS No:
SDG No: MH2097

L

Date Shipped:	6/16/2008	**Chain of Custody Record**	Sampler Signature:
Carrier Name:	Hand delivered	Relinquished By (Date / Time)	Received By (Date / Time)
Airbill:		1 6/18/08	6/18/08 / 855
Shipped to:	Datachem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700	2	
		3	
		4	

For Lab Use Only
Lab Contract No: EPA 6057
Unit Price: n/a
Transfer To: Mo 6/18/08
Lab Contract No:
Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH25C5	Surface Water/ Sediment	/G	DM (21), TM (21)	91, 92, 93 (3)	Silver Creek upstream of Dority Springs	S: 6/5/2008	10:20	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
MH25C7	Surface Water/ Sediment	/G	DM (21), TM (21)	97, 98, 99 (3)	Silver Creek above Prospector Square	S: 6/5/2008	10:50	
MH25C8	Surface Water/ Sediment	/G	DM (21), TM (21)	100, 101, 102 (3)	Silver Creek downstream of Ontario Canyon	S: 6/5/2008	12:55	
MH25C9	Surface Water	/G	DM (21), TM (21)	~~103, 104, 105 (3)~~ (2)	Silver Creek above Ontario Canyon	S: 6/5/2008	13:20	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
MH25D1	Surface Water/ Sediment	/G	DM (21), TM (21)	109, 110, 111 (3)	Ontario Canyon below Ontario Drain Tunnel 2	S: 6/5/2008	14:50	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
MH25D3	Surface Water	/G	DM (21), TM (21)	~~115, 116, 117 (3)~~ (2)	Ontario Canyon above Empire Canyon	S: 6/5/2008	14:00	
MH25D4	Surface Water/ Sediment	/G	DM (21), TM (21)	118, 119, 120 (3)	Mouth of Empire Canyon	S: 6/5/2008	15:00	

Mo 6/18/08

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4/4/4/4/4/4	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? NL / Shipment Iced? Y

DM = CLP TAL Dissolved Metals, TM = CLP TAL Total Metals

TR Number: 8-584325316-061608-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

COPY

MH 1554.1

Case No: 37402
DAS No:
SDG No: MH 21097

L

12

Date Shipped: 6/16/2008	**Chain of Custody Record**		Sampler Signature:	**For Lab Use Only**	
Carrier Name: Hand delivered	Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No: EPA Contract
Airbill:	1		Mercedes Calvert	6/16/08 15:15	Unit Price: n/a
Shipped to: Datachem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700	2				Transfer To:
	3				Lab Contract No:
	4				Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH25D5	Surface Water/ Sediment	/G	DM (21), TM (21)	121, 122, 123 (3)	Mouth of Walker & Webster Gulch	S: 6/6/2008	11:00		
MH25D6	Surface Water	/G	DM (21), TM (21)	~~124, 125, 126 (3)~~ (2)	Mouth of Anchor Tunnel	S: 6/6/2008	9:50		
MH25D7	Surface Water/ Sediment	/G	DM (21), TM (21)	127, 128, 129 (3)	Upstream of Anchor Tunnel	S: 6/6/2008	10:30		
MH25D8	Ground Water	/G	DM (21), TM (21)	130, 131 (2)	Transect 1	S: 6/4/2008	18:55		
MH25D9	Ground Water	/G	DM (21), TM (21)	132, 133 (2)	Transect 2	S: 6/4/2008	17:43		
MH25E0	Ground Water	/G	DM (21), TM (21)	134, 135 (2)	Transect 3	S: 6/4/2008	17:08		
MH25E1	Ground Water	/G	DM (21), TM (21)	136, 137 (2)	Transect 5	S: 6/3/2008	15:00		
MH25E2	Ground Water	/G	DM (21), TM (21)	138, 139 (2)	Transect 6	S: 6/3/2008	12:55		
MH25E3	Ground Water	/G	DM (21), TM (21)	140, 141 (2)	P2-5	S: 6/3/2008	10:57		
MH25E4	Surface Water/ Sediment	/G	DM (21), TM (21)	142, 143, 144 (3)	SC-SW-33	S: 6/5/2008	10:54		

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4/4/4/4/4	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? N / Shipment Iced? Y

DM = CLP TAL Dissolved Metals, TM = CLP TAL Total Metals

TR Number: 8-584325316-061608-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

COPY

Work 1554.1

Case No: 37402
DAS No:
SDG No: MH2097

L

13

Date Shipped: 6/16/2008	**Chain of Custody Record**		Sampler Signature:		**For Lab Use Only**
Carrier Name: Hand delivered	Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No: EP-D-06-054
Airbill:	1	6/18/08		6/18/08	Unit Price: N/A
Shipped to: Datachem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700	2				Transfer To: N/A 6/16/08
	3				Lab Contract No:
	4				Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH25E5	Surface Water/ Sediment	/G	DM (21), TM (21)	145, 146, 147 (3)	SC-SW-40-1	S: 6/5/2008	14:30		
MH25E6	Surface Water/ Sediment	/G	DM (21), TM (21)	148, 149, 150 (3)	SC-SW-40-1	S: 6/5/2008	14:37		
MH25E7	Surface Water/ Sediment	/G	DM (21), TM (21)	151, 152, 153 (3)	SC-SW-43	S: 6/6/2008	10:34		
MH25E8	Surface Water/ Sediment	/G	DM (21), TM (21)	154, 155, 156 (3)	SC-SW-44	S: 6/5/2008	18:45		
MH25E9	Surface Water	/G	DM (21), TM (21)	~~157, 158, 159 (3)~~ (2)	SC-SW-OPP1	S: 6/5/2008	8:07		
MH25F0	Surface Water	/G	DM (21), TM (21)	~~160, 161, 162 (3)~~ (2)	SC-SW-OPP2	S: 6/5/2008	15:40		
MH25F1	Sediment		[redacted] TM(21)	(1)	SC-SW-20				

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4/4/4/4/4/4	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? N / Shipment Iced? Y

DM = CLP TAL Dissolved Metals, TM = CLP TAL Total Metals

TR Number: 8-584325316-061608-0001

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TARGET SHEET

EPA REGION VIII

SUPERFUND DOCUMENT MANAGEMENT SYSTEM

DOCUMENT NUMBER: 1085986

SITE NAME: RICHARDSON FLAT TAILINGS

DOCUMENT DATE: 09/11/2008

DOCUMENT NOT SCANNED

Due to one of the following reasons:

- ☐ PHOTOGRAPHS
- ☐ 3-DIMENSIONAL
- ☐ OVERSIZED
- ☐ AUDIO/VISUAL
- ☐ PERMANENTLY BOUND DOCUMENTS
- ☐ POOR LEGIBILITY
- ☑ OTHER
- ☐ NOT AVAILABLE
- ☐ TYPES OF DOCUMENTS NOT TO BE SCANNED
  (Data Packages, Data Validation, Sampling Data, CBI, Chain of Custody)

DOCUMENT DESCRIPTION:

1 - 3 1/2" Floppy - File Name MH2697.IO1, Contract #EP-W-06-054, Case/SDG 37402/MH2697, 7/14/08

Contact the Superfund Records Center to view available document.
(303) 312-6473